RCHP-139US

Appln. No.: 10/594,094

Amendment Dated October 6, 2008 Reply to Office Action of June 4, 2008

 $\frac{\text{caprolactone}}{\text{poly}(\epsilon\text{-caprolactone})}$, $\frac{\text{poly}(\text{dioxanone})}{\text{poly}(\text{rthoester})}$, $\frac{\text{poly}(\text{phosphanate})}{\text{poly}(\text{phosphonate})}$, $\frac{\text{poly}(\text{phosphonate})}{\text{poly}(\text{ether})}$, $\frac{\text{poly}(\text{ether})}{\text{poly}(\text{ether})}$, $\frac{\text{$

- 8. (Original) The method of claim 1, wherein the solvent is a member selected from the group consisting of methylene chloride, chloroform, ether, hexane, pentane, petroleum ether, cresol, dichloroethane, ethyl acetate, methyl ethyl ketone, dioxane, propylene carbonate, and butyl acetate.
- 9. (Currently Amended) The method of claim 1, further <u>comprising</u> providing a third component, said third component is being a member selected from the group consisting of a biomolecule, a cell, a particle, and a gel.
- 10. (Original) The method of claim 9, wherein the biomolecule is a member selected from the group consisting of a bioactive polypeptide, a polynucleotide coding for the bioactive polypeptide, a cell regulatory small molecule, a peptide, a protein, an oligonucleotide, a nucleic acid, a poly(saccharide), an adenoviral vector, a gene transfection vector, a drug, and a drug delivering agent.
- 11. (Original) The method of claim 9, wherein the cell is a member selected from the group consisting of chondroblast, chondrocyte, fibroblast, an endothelial cell, osteoblast, osteocyte, an epithelial cell, an epidermal cell, a mesenchymal cell, a hemopoietic cell, an embryoid body, a stem cell, and dorsal root ganglia.
- 12. (Currently Amended) The method of claim 9, wherein the <u>third component</u> particle is a colloidal particle or a solid particle.
- 13. (Currently Amended) The method of claim 12, wherein the <u>third component is a colloidal particle nanoparticle havinghas</u> a diameter of about 3nm to about 10 micrometers and said colloidal nanoparticle is a member selected from the group consisting of a polymer, an oxide, a nitride, a carbide, calcium silicate, calcium phosphate, calcium carbonate, a carbonaceous material, a metal, and a semiconductor.
- 14. (Currently Amended) The method of claim 12, wherein the <u>third component is a</u> solid <u>particle nanoparticle havinghas</u> a diameter of about 3nm to about 10 micrometers and said solid nanoparticle is a member selected from the group consisting of a polymer, an

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oxide, a nitride, a carbide, calcium silicate, calcium phosphate, calcium carbonate, a carbonaceous material, a metal, and a semiconductor.

- 15. (Currently Amended) The method of claim 9, wherein the <u>emulsion further</u> <u>comprises a surfactant is a member</u> selected from the group consisting of PLURONIC, polyvinyl alcohol, poly(sorbate), oleyl alcohol, glycerol ester, sorbitol, carboxy methoxy cellulose, <u>sodumsodium</u> dodecyl sulfonate, <u>sodumsodium</u> dodecyl benzene sulfonate, oleic acid, albumin, ova-albumin, lecithin, natural lipids, and synthetic lipids.
- 16. (Original) The method of claim 1, wherein the emulsion comprises water, poly(lactic acid), poly(vinyl alcohol) and optionally a silicone oxide nanoparticle comprising a biomolecule.
- 17. (Currently Amended) The method of claim 1, wherein the first component and the second component are provided at a ratio, wherein the ratio is adapted to <u>provide a</u> desired affect morphology of the fiber.
- 18. (Original) The method of claim 17, wherein the morphology is a member selected from the group consisting of flat fiber, round fiber, porous fiber and a combination thereof.
 - 19. (Withdrawn) A fiber manufactured by the method of claim 1.
- 20. (Withdrawn) The fiber of claim 19, wherein the emulsion comprises water, poly(lactic acid), and optionally a nanoparticle comprising silicone oxide and the biomolecule.
- 21. (Withdrawn) The fiber of claim 19, wherein the diameter is about 3 nm to 10 micrometers.
- 22. (Original) In a method of making a fiber by electrospinning wherein the fiber is formed by extruding a fiber-forming medium from a vessel through an orifice under influence of a force, the improvement wherein the fiber-forming medium comprises an emulsion including (1) a first component comprising water, the first component is provided in an amount of at most 20 vol. %, and (2) a second component comprising a polymer, the second component is provided in an amount of at least 80 vol. %, on a condition that the first

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component has a first evaporation rate and the second component has a second evaporation rate and wherein the second evaporation rate is higher than the first evaporation rate.

- 23. (New) The method of claim 1, wherein the extruding comprises electrospinning.
- 24. (New) The method of claim 1, wherein the polymer comprises poly(lactic acid).
- 25. (New) The method of claim 22, wherein the polymer comprises poly(lactic acid).